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RAW SEQUENCE LISTING   DATE: 04/26/2002
PATENT APPLICATION: US/09/902,525   TIME: 14:28:57

Input Set : N:\Crf3\RULE60\09902525.raw
Output Set: N:\CRF3\04262002\I902525.raw

SEQUENCE LISTING

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 1 (1) GENERAL INFORMATION:
 2      (i) APPLICANT: Recombinant Biocatalysis, Inc.
 3     (ii) TITLE OF INVENTION: THERMOSTABLE PHOSPHATASES
 4    (iii) NUMBER OF SEQUENCES: 54
 5     (iv) CORRESPONDENCE ADDRESS:
 6          (A) ADDRESSEE: Fish & Richardson P.C.
 7          (B) STREET: 4225 Executive Square, Suite 1400
 8          (C) CITY: La Jolla
 9          (D) STATE: CA
10          (E) COUNTRY: USA
11          (F) ZIP: 92037
12      (v) COMPUTER READABLE FORM:
13          (A) MEDIUM TYPE: Diskette
14          (B) COMPUTER: IBM Compatible
15          (C) OPERATING SYSTEM: Windows 95
16          (D) SOFTWARE: FastSEQ for Windows Version 2.0b
17     (vi) CURRENT APPLICATION DATA:
C--> 18          (A) APPLICATION NUMBER: US/09/902,525
C--> 19          (B) FILING DATE: 09-Jul-2001
20          (C) CLASSIFICATION:
21    (vii) PRIOR APPLICATION DATA:
22          (A) APPLICATION NUMBER: US/09/202,681A
23          (B) FILING DATE: 23-Dec-1999
25          (A) APPLICATION NUMBER: 08/666,857
26          (B) FILING DATE: 19-JUN-1996
27          (A) APPLICATION NUMBER: 60/033,752
28          (B) FILING DATE: 19-JUN-1997
29   (viii) ATTORNEY/AGENT INFORMATION:
30          (A) NAME: Haile, Ph.D., Lisa A.
31          (B) REGISTRATION NUMBER: 38,347
32          (C) REFERENCE/DOCKET NUMBER: 09010/015WO1
33     (ix) TELECOMMUNICATION INFORMATION:
34          (A) TELEPHONE: 619/678-5070
35          (B) TELEFAX: 619/678-5099
36          (C) TELEX:
37 (2) INFORMATION FOR SEQ ID NO: 1:
38      (i) SEQUENCE CHARACTERISTICS:
39          (A) LENGTH: 52 base pairs
40          (B) TYPE: nucleic acid
41          (C) STRANDEDNESS: single
42          (D) TOPOLOGY: linear
43     (ii) MOLECULE TYPE: cDNA
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```
44      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
45         CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGGGGGCA GGTCCGAAAA GG              52
47  (2) INFORMATION FOR SEQ ID NO: 2:
48         (i) SEQUENCE CHARACTERISTICS:
49             (A) LENGTH: 31 base pairs
50             (B) TYPE: nucleic acid
51             (C) STRANDEDNESS: single
52             (D) TOPOLOGY: linear
53        (ii) MOLECULE TYPE: cDNA
54        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
55         CCGAGGATCC TCACCGCCCC CTGCGGGTGC G                                    31
57  (2) INFORMATION FOR SEQ ID NO: 3:
58         (i) SEQUENCE CHARACTERISTICS:
59             (A) LENGTH: 52 base pairs
60             (B) TYPE: nucleic acid
61             (C) STRANDEDNESS: single
62             (D) TOPOLOGY: linear
63        (ii) MOLECULE TYPE: cDNA
64        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
65         CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGTTGGAT ATACTGCTTG TT              52
67  (2) INFORMATION FOR SEQ ID NO: 4:
68         (i) SEQUENCE CHARACTERISTICS:
69             (A) LENGTH: 32 base pairs
70             (B) TYPE: nucleic acid
71             (C) STRANDEDNESS: single
72             (D) TOPOLOGY: linear
73        (ii) MOLECULE TYPE: cDNA
74        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
75         CCGACGATCC TTATTTTTTA ACCAAATGTT CC                                   32
77  (2) INFORMATION FOR SEQ ID NO: 5:
78         (i) SEQUENCE CHARACTERISTICS:
79             (A) LENGTH: 52 base pairs
80             (B) TYPE: nucleic acid
81             (C) STRANDEDNESS: single
82             (D) TOPOLOGY: linear
83        (ii) MOLECULE TYPE: cDNA
84        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
85         CCGACAATTG ATTAAAGAGG AGAAATTAAC TATGATGATG GAATTCACTC GC              52
87  (2) INFORMATION FOR SEQ ID NO: 6:
88         (i) SEQUENCE CHARACTERISTICS:
89             (A) LENGTH: 32 base pairs
90             (B) TYPE: nucleic acid
91             (C) STRANDEDNESS: single
92             (D) TOPOLOGY: linear
93        (ii) MOLECULE TYPE: cDNA
94        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
95         CGGAGGATCC CTACAGTTCT AAAAGTCTTT TA                                   32
97  (2) INFORMATION FOR SEQ ID NO: 7:
98         (i) SEQUENCE CHARACTERISTICS:
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```
99          (A) LENGTH: 52 base pairs
100            (B) TYPE: nucleic acid
101            (C) STRANDEDNESS: single
102            (D) TOPOLOGY: linear
103      (ii) MOLECULE TYPE: cDNA
104      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
105        CCGACAATTG ATTAAAGAGG AGAAATTAAC TATGAGAACC CTGACAATAA AC          52
107  (2) INFORMATION FOR SEQ ID NO: 8:
108      (i) SEQUENCE CHARACTERISTICS:
109            (A) LENGTH: 31 base pairs
110            (B) TYPE: nucleic acid
111            (C) STRANDEDNESS: single
112            (D) TOPOLOGY: linear
113      (ii) MOLECULE TYPE: cDNA
114      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
115        CCGAGGATCC TTACACCCAC AGAACCCTTA C          31
117  (2) INFORMATION FOR SEQ ID NO: 9:
118      (i) SEQUENCE CHARACTERISTICS:
119            (A) LENGTH: 52 base pairs
120            (B) TYPE: nucleic acid
121            (C) STRANDEDNESS: single
122            (D) TOPOLOGY: linear
123      (ii) MOLECULE TYPE: cDNA
124      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
125        CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGAAAGGA AAGTCTCTTG TT          52
127  (2) INFORMATION FOR SEQ ID NO: 10:
128      (i) SEQUENCE CHARACTERISTICS:
129            (A) LENGTH: 31 base pairs
130            (B) TYPE: nucleic acid
131            (C) STRANDEDNESS: single
132            (D) TOPOLOGY: linear
133      (ii) MOLECULE TYPE: cDNA
134      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
135        CCGAGGATCC TCAAGCTTCC TGGAGAATCA A          31
137  (2) INFORMATION FOR SEQ ID NO: 11:
138      (i) SEQUENCE CHARACTERISTICS:
139            (A) LENGTH: 52 base pairs
140            (B) TYPE: nucleic acid
141            (C) STRANDEDNESS: single
142            (D) TOPOLOGY: linear
143      (ii) MOLECULE TYPE: cDNA
144      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
145        CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGCCAAGA AATATCGCCG CT          52
147  (2) INFORMATION FOR SEQ ID NO: 12:
148      (i) SEQUENCE CHARACTERISTICS:
149            (A) LENGTH: 34 base pairs
150            (B) TYPE: nucleic acid
151            (C) STRANDEDNESS: single
152            (D) TOPOLOGY: linear
```

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153      (ii) MOLECULE TYPE: cDNA
154      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
155        CCGAGGATCC TTAAGGCTTC TCGAGGTGGG GGTT                        34
157  (2) INFORMATION FOR SEQ ID NO: 13:
158      (i) SEQUENCE CHARACTERISTICS:
159          (A) LENGTH: 54 base pairs
160          (B) TYPE: nucleic acid
161          (C) STRANDEDNESS: single
162          (D) TOPOLOGY: linear
163      (ii) MOLECULE TYPE: cDNA
164      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
165        CCGACAATTG ATTAAAGAGG AGAAATTAAC TATGTATAAA TGGATTATTG AGGG      54
167  (2) INFORMATION FOR SEQ ID NO: 14:
168      (i) SEQUENCE CHARACTERISTICS:
169          (A) LENGTH: 31 base pairs
170          (B) TYPE: nucleic acid
171          (C) STRANDEDNESS: single
172          (D) TOPOLOGY: linear
173      (ii) MOLECULE TYPE: cDNA
174      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
175        CCGAGGACTA AACATAGTCT AAGTAATTAG C                            31
177  (2) INFORMATION FOR SEQ ID NO: 15:
178      (i) SEQUENCE CHARACTERISTICS:
179          (A) LENGTH: 52 base pairs
180          (B) TYPE: nucleic acid
181          (C) STRANDEDNESS: single
182          (D) TOPOLOGY: linear
183      (ii) MOLECULE TYPE: cDNA
184      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
185        CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGAGAATC CTCCTCACCA AC       52
187  (2) INFORMATION FOR SEQ ID NO: 16:
188      (i) SEQUENCE CHARACTERISTICS:
189          (A) LENGTH: 31 base pairs
190          (B) TYPE: nucleic acid
191          (C) STRANDEDNESS: single
192          (D) TOPOLOGY: linear
193      (ii) MOLECULE TYPE: cDNA
194      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
195        CCGAGGATCC TCACAGGCTC AGAAGCCTTT G                            31
197  (2) INFORMATION FOR SEQ ID NO: 17:
198      (i) SEQUENCE CHARACTERISTICS:
199          (A) LENGTH: 54 base pairs
200          (B) TYPE: nucleic acid
201          (C) STRANDEDNESS: single
202          (D) TOPOLOGY: linear
203      (ii) MOLECULE TYPE: Genomic DNA
204      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
205        CCGAGAATTC ATTAAAGAGG AGAAATTAAC TATGGAAAAC TTAAAAAGT ACCT      54
207  (2) INFORMATION FOR SEQ ID NO: 18:
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208      (i) SEQUENCE CHARACTERISTICS:
209          (A) LENGTH: 31 base pairs
210          (B) TYPE: nucleic acid
211          (C) STRANDEDNESS: single
212          (D) TOPOLOGY: linear
213     (ii) MOLECULE TYPE: cDNA
214     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
215          CCGAGGATCC TCACCGCCCC CTGCGGGTGC G                              31
217 (2) INFORMATION FOR SEQ ID NO: 19:
218      (i) SEQUENCE CHARACTERISTICS:
219          (A) LENGTH: 783 base pairs
220          (B) TYPE: nucleic acid
221          (C) STRANDEDNESS: single
222          (D) TOPOLOGY: linear
223     (ii) MOLECULE TYPE: Genomic DNA
224     (ix) FEATURE:
225          (A) NAME/KEY: Coding Sequence
226          (B) LOCATION: 1...780
227     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
228      ATG AGG GGG AGC GGA GTG CGG ATA CTT CTC ACC AAC GAT GAC GGC ATC     48
229      Met Arg Gly Ser Gly Val Arg Ile Leu Leu Thr Asn Asp Asp Gly Ile
230       1               5                  10                  15
231      TTT GCC GAG GGT CTG GGG GCT CTG CGC AAG ATG CTG GAG CCC GTG GCT     96
232      Phe Ala Glu Gly Leu Gly Ala Leu Arg Lys Met Leu Glu Pro Val Ala
233                       20                  25                  30
234      ACC CTT TAC GTG GTG GCT CCG GAC CGA GAG CGT AGC GCG GCC AGC CAT    144
235      Thr Leu Tyr Val Val Ala Pro Asp Arg Glu Arg Ser Ala Ala Ser His
236                   35                  40                  45
237      GCT ATC ACC GTT CAC CGC CCC CTG CGG GTG CGG GAG GCG GGT TTT CGC    192
238      Ala Ile Thr Val His Arg Pro Leu Arg Val Arg Glu Ala Gly Phe Arg
239           50                  55                  60
240      AGC CCC AGG CTT AAA GGC TGG GTA GTG GAC GGT ACC CCG GCC GAC TGC    240
241      Ser Pro Arg Leu Lys Gly Trp Val Val Asp Gly Thr Pro Ala Asp Cys
242      65                  70                  75                  80
243      GTC AAG CTG GGC CTG GAG GTA CTT TTG CCC GAA CGT CCA GAT TTC CTG    288
244      Val Lys Leu Gly Leu Glu Val Leu Leu Pro Glu Arg Pro Asp Phe Leu
245                       85                  90                  95
246      GTT TCG GGC ATA AAC TAC GGG CCC AAC CTG GGT ACC GAC GTA CTT TAC    336
247      Val Ser Gly Ile Asn Tyr Gly Pro Asn Leu Gly Thr Asp Val Leu Tyr
248                   100                 105                 110
249      TCC GGC ACC GTC TCG GCG GCC ATA GAA GGG GTA ATT AAC GGC ATT CCC    384
250      Ser Gly Thr Val Ser Ala Ala Ile Glu Gly Val Ile Asn Gly Ile Pro
251              115                 120                 125
252      TCG GTG GCC GTA TCT TTG GCC ACG CGG CGG GAG CCG GAC TAT ACC TGG    432
253      Ser Val Ala Val Ser Leu Ala Thr Arg Arg Glu Pro Asp Tyr Thr Trp
254          130                 135                 140
255      GCG GCC CGG TTC GTC CTG GTC CTG CTG GAG GAA CTG CGA AAA CAC CAA    480
256      Ala Ala Arg Phe Val Leu Val Leu Leu Glu Glu Leu Arg Lys His Gln
257      145                 150                 155                 160
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VERIFICATION SUMMARY   DATE: 04/26/2002
PATENT APPLICATION: US/09/902,525   TIME: 14:28:58

Input Set : **N:\Crf3\RULE60\09902525.raw**
Output Set: **N:\CRF3\04262002\I902525.raw**

L:18 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:19 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]